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Katrina A. Lyon LYON & HARR, LLP Suite 800 300 Esplanade Drive Oxnard, CA 93036			EXAMINER BECKER, SHASHI KAMALA	
			ART UNIT 2179	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/633,776

Applicant(s)

COHEN ET AL.

Examiner

Shashi K. Becker

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 01 January 1938.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/8/07 has been entered.

### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claim 1-38 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The limitations in claims 1, 16, 28 and 29, "image stack comprising a stack of non-layered, separate original images," fail to comply with the written description requirement.

### ***Claim Rejections - 35 USC § 101***

3. 35 U.S.C. 101 reads as follows:

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Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 28-38 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

- In regards to claim 28, the claim limitation "computer readable-medium" is directed to non-statutory subject matter as described in the specification to be a "modulated data signal (page 11 paragraph 1)".
- In regards to claims 29-38, the claim limitation " graphical user interface" not clearly defined, and therefore can be interpreted as directed towards non-statutory subject matter such as software.

#### **Claim Rejections - 35 USC § 103**

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 1, 2, 4-6, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beeman et al (hereinafter Beeman)

US2003/0190090, in view of Hsu et al (hereinafter Hsu) US Patent 6078701.

- In regards to claims 1, 16, 28 and 29 Beeman teaches a computer-implemented process, a system, computer-readable medium, and a graphical user interface for creating a composite image, comprising using a computer to perform the following process actions: inputting an image stack comprising a stack of non-layered, separate original images, each original image taken at a distinct separate time from the same point of view; applying one or more filters to the image to create one or more new intermediate images; selecting one of the original images in the image stack or an intermediate image as a source image (page 4 paragraphs [0042]-[0047]); and selecting pixels (page 5 paragraphs [0068] and [0069]) from the source image to be added to a composite image to create a final composite image. However, Beeman does not specifically teach wherein the pixel position of each original image in the image stack is defined in a three dimensional coordinate system, and wherein two dimensions describe the dimensions of each image in the image stack, and the third dimension describes the time an image was captured.

Hsu teaches a method and apparatus for performing local to global multiframe alignment to construct mosaic images. Hsu further teaches wherein the pixel

position of each original image in the image stack is defined in a three dimensional coordinate system, and wherein two dimensions describe the dimensions of each image in the image stack, and the third dimension describes the time an image was captured (column 18 lines 30-46 and column 16 line 44-column 17 line 9). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Beeman to include the time of image capture in order to create three dimensions out of a two-dimensional image stack. One would have been motivated to make such a combination in order to create a three dimensional image out of a two-dimensional image stack, based on time of image capture.

- In regards to claim 2, Beeman teaches the above limitations (see claims 1, 16, and 29). Beeman further suggests wherein the process action of inputting an image stack comprises inputting an image stack wherein said original images are defined in a Cartesian coordinate system (page 13 paragraph [0220]).
- In regards to claims 4 and 19, Beeman teaches the above limitations (see claims 1, 16, and 29). Beeman further teaches wherein said process action of applying a filter comprises applying a median filter that returns the median pixel luminance along a span of the image stack, wherein a span is a set of image pixels at the same location in all images of the image stack (page 5 paragraph [0064]).
- In regards to claim 5, Beeman teaches the above limitations (see claims 1, 16, and 29). Beeman further suggests wherein said process action of applying a

filter comprises applying a maximum histogram filter that returns the pixel with the minimum sum of squared distances in red, green, blue color space to all other pixels along a span of the image stack, wherein a span is the set of image pixels at the same location in all images of the image stack (page 5 paragraph [0064]).

- In regards to claim 6, Beeman teaches the above limitations (see claims 1, 16, and 29). Beeman further suggests wherein said process action of applying a filter comprises applying a minimum histogram filter that returns the pixel with the maximum sum of squared distances in red, green, blue color space to all other pixels along a span of the image stack, wherein a span is the set of image pixels at the same location in all images of the image stack. (page 5 paragraph [0064]).
- In regards to claims 8 and 21, Beeman teaches the above limitations (see claims 1, 16, and 29). Beeman further teaches wherein said process action of applying a filter comprises applying a maximum contrast filter that returns the pixel that has the highest contrast in a small neighborhood around it along a span of the image stack, wherein a span is the set of image pixels at the same location in all images of the image stack (page 5 paragraph [0055]).
- In regards to claims 10, Beeman teaches the above limitations (see claims 1, 16, and 29). Beeman further teaches wherein said process action of applying a filter comprises applying a temporal smoothing filter that returns a weighted blend of a current image and the images before and after it, for a given span of the

image stack, wherein a span is the set of image pixels at the same location in all images of the image stack (page 8 paragraph [0107]).

- In regards to claim 11, Beeman teaches the above limitations (see claims 1, 16, and 29). Beeman further teaches wherein said process action of applying a filter comprises applying a temporal sharpening filter that returns a pixel in the current image modified by the difference of the pixels in the images before and after the current image for a given span of the image stack, wherein a span is the set of image pixels at the same location in all images of the image stack (page 6 paragraph [0075]).
- In regards to claim 30, Beeman teaches the above limitations (see claims 1, 16, and 29). Beeman further teaches wherein said user creates said intermediate image by applying at least one filter to the image stack and uses said intermediate image as a source image (page 4 paragraphs [0042]-[0047]).
- In regards to claim 31, Beeman teaches the above limitations (see claims 1, 16, and 29). Beeman further teaches wherein parts of said source image are transferred to said composite image by transferring pixels from the source image to the composite image (page 5 paragraphs [0068] and [0069]).
- In regards to claim 32, Beeman teaches the above limitations (see claims 1, 16, and 29). Beeman further teaches wherein said transfer of pixels from said source image to said composite image is based on a one-to-one correspondence regardless of whether the user initiates pixel transfer from the source image or the composite image (page 5 paragraphs [0068] and [0069]).



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8. Claims 7, 9, 12, 13, 18, 20, 22, 23, and 33-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beeman and Hsu in view of "Photoshop 3," by Dayton et al (hereinafter Dayton).

- In regards to claims 7 and 20, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach wherein said process action of applying a filter comprising applying a maximum luminance filter that returns the pixel with the maximum luminance along a span of the image, wherein a span is the set of image pixels at the same location in all images of the image.

Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images. Dayton further teaches wherein said process action of applying a filter comprising applying a maximum luminance filter that returns the pixel with the maximum luminance along a span of the image, wherein a span is the set of image pixels at the same location in all images of the image (pg.140).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Beeman and Hsu to include the teachings of Dayton in order have a maximum luminance filter. One would have been motivated to make such a combination in order for the user to maximally enhance their digital photos.

- In regards to claim 9, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach wherein said small neighborhood is 5 by 5 pixels.

Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images. Dayton further teaches wherein said small neighborhood is 5 by 5 pixels (pg. 83). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Beeman and Hsu to include the teachings of Dayton in order to have a defined neighborhood of filtering. One would have been motivated to make such a combination in order for the user to maximally enhance their digital photos.

- In regards to claim 12, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach wherein said process action of applying a filter comprises applying a high dynamic range filter that combines different exposures over a span of the image, wherein a span is the set of image pixels at the same location in all images of the image.

Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images. Dayton further teaches wherein said process action of applying a filter comprises applying a high dynamic range filter that combines different exposures over a span of the image, wherein a span is the set of image pixels at the same location in all images of the image (pg. 76). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Beeman and Hsu to include the teachings of Dayton in order to have a high dynamic range filter. One would have been

motivated to make such a combination in order for the user to maximally enhance their digital photos.

- In regards to claim 13, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach wherein the high dynamic range filter extracts exposure information associated with the original images that comprise the image.

Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images. Dayton further teaches wherein the high dynamic range filter extracts exposure information associated with the original images that comprise the image (pg. 76). It would have been obvious for the reasons stated above (see claim 12).

- In regards to claim 18, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach wherein said module to apply a filter applies a high dynamic range luminance filter that comprises sub-modules to: compute a radiance value for each pixel in said image; map the radiance value for each pixel to its luminance value by mapping red, green and blue channels to a display to match the luminance.

Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images. Dayton further teaches wherein said module to apply a filter applies a high dynamic range luminance filter that comprises sub-modules to:

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compute a radiance value for each pixel in said image; map the radiance value for each pixel to its luminance value by mapping red, green and blue channels to a display to match the luminance (pg. 76). It would have been obvious for the reasons stated above (see claim 12).

- In regards to claim 22, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach wherein said module to apply a filter applies a high dynamic range filter that comprises sub-modules to: compute a radiance value for each pixel in said image stack; map the radiance values for each pixel back to a set of display values via a tone-map.

Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images. Dayton further teaches wherein said module to apply a filter applies a high dynamic range filter that comprises sub-modules to: compute a radiance value for each pixel in said image; map the radiance values for each pixel back to a set of display values via a tone-map (pg. 76). It would have been obvious for the reasons stated above (see claim 12).

- In regards to claim 23, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach wherein said tone-map is user- defined.

Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images. Dayton further teaches wherein said tone-map is user-

defined (pg. 76). It would have been obvious for the reasons stated above (see claim 12).

- In regards to claims 33 and 35, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach further comprising a paintbrush function that transfers some pixels from said source image to said composite image.

Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images. Dayton further teaches further comprising a paintbrush function that transfers some pixels from said source image to said composite image (pg. 176). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Beeman and Hsu to include the teachings of Dayton in order to have a paintbrush function for pixel transfer. One would have been motivated to make such a combination in order to for the user to maximally enhance their digital photos.

- In regards to claim 34, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach wherein a radius of pixel transfer is user defined. Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images. Dayton further teaches wherein a radius of pixel transfer is

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user defined (pg. 83 and 140). It would have been obvious for the reasons stated above (see claim 9).

- In regards to claim 36, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach wherein scaling the source image or the composite image scales paintbrush function.

Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images Dayton further teaches wherein scaling the source image or the composite image scales paint brush function (pg. 76). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Beeman and Hsu to include the teachings of Dayton in order to have a scaling function for a paint brush and source image. One would have been motivated to make such a combination in order to for the user to maximally enhance their digital photos.

- In regards to claim 37, Beeman and Hsu teach the above limitations (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32). However, Beeman and Hsu do not specifically teach wherein a highest resolution image available is used when transferring pixels using the paintbrush function even when the source image or composite image is scaled.

Dayton how to use Photoshop 3, where the user can enhance, edit, manipulate, etc. digital images Dayton further teaches wherein a highest resolution image available is used when transferring pixels using the paintbrush function even

when the source image or composite image is scaled (pg. 35). It would have been obvious for the reasons stated above (see claims 33 and 35).

9. Claims 3 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beeman and Hsu as applied to claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 above, and further in view of Jodoin et al (hereinafter Jodoin), US Patent 5493419.

- In regards to claim 3, Beeman and Hsu teach the above limitations in the claims above (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 *supra*).

However, Beeman and Hsu do not specifically teach wherein said process action of applying a filter comprises applying a slice filter wherein said filter returns an image in said image stack.

Jodoin teaches stack filters for 1-to-N bit image processing in electronic printers. Jodoin further teaches wherein said process action of applying a filter comprises applying a slice filter wherein said filter returns an image in said image stack (Abstract). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Beeman and Hsu to include a slice filter. One would have been motivated to make such a combination in order to use the filter to better format the image.

- In regards to claim 17, Beeman and Hsu teach the above limitations in the claims above (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 *supra*).

However, Beeman and Hsu do not specifically teach wherein said module to apply a filter applies a slice (x,y) filter wherein for each (x, y) said filter returns a pixel at depth z from said image stack.

Jodoin teaches stack filters for 1-to-N bit image processing in electronic printers. Jodoin further teaches wherein said module to apply a filter applies a slice (x,y) filter wherein for each (x, y) said filter returns a pixel at depth z from said image stack (Abstract). It would have been obvious for the same reasons stated above (see claim 3 *supra*).

10. Claims 14, 26, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beeman and Hsu as applied to claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 above, and further in view of Okamoto et al (hereinafter Okamoto), US Patent 5754618.

- In regards to claims 14 and 26, Beeman and Hsu teach the above limitations in the claims above (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 *supra*). However, Beeman and Hsu do not specifically teach wherein said process action of applying a filter comprises applying a surface filter that operates on a given surface through the image stack.

Okamoto teaches an image processing apparatus and method for favorably enhancing continuous boundaries, which are affected by noise. Okamoto further teaches said process action of applying a filter comprises applying a surface filter that operates on a given surface through the image stack (column 19 lines 12-21). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Beeman and Hsu to include a surface filter in order to filter via surface of the image. One would have been motivated to make such a combination in order to use the filter to better format the image.



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- In regards to claim 27, Beeman and Hsu teach the above limitations in the claims above (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 *supra*).

However, Beeman and Hsu do not specifically teach wherein said surface embedded in the image stack is user-defined.

Okamoto teaches an image processing apparatus and method for favorably enhancing continuous boundaries, which are affected by noise. Okamoto further teaches wherein said surface embedded in the image stack is user-defined (Abstract). It would have been obvious for the reasons stated in the above claim (see claims 14 and 26 *supra*).

11. Claims 15, 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beeman and Hsu as applied to claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 above, and further in view of Chuang et al (hereinafter Chuang), "Video Matting of Complex Scenes".

- In regards to claims 15, 24, and 25, Beeman and Hsu teach the above limitations in the claims above (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 *supra*). However, Beeman and Hsu do not specifically teach wherein said process action of applying a filter comprises applying a mat filter that produces a mat of a given portion of the image stack, wherein the mat is an image of transparency values that will modify the source image when it is used for creating said composite image.

Chuang teaches video matting of complex scenes. Chuang further teaches wherein said process action of applying a filter comprises applying a mat filter

that produces a mat of a given portion of the image stack, wherein the mat is an image of transparency values that will modify the source image when it is used for creating said composite image (page 1, introduction). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Beeman and Hsu to include a mat filter to manipulate the background and foreground. One would have been motivated to make such a combination in order to use the filter to better format the image.

12. Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Beeman and Hsu as applied to claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 above, and further in view of Funayama et al (hereinafter Funayama), US Patent 6389155.

- In regards to claim 38, Beeman and Hsu teach the above limitations in the claims above (see claims 1, 4, 8, 10, 11, 16, 19, 21, 28, 29, and 30-32 *supra*).

However, Beeman and Hsu do not specifically teach further comprising a paint brush function that transfers all pixels associated with a face from said source image to said composite image when said paint brush function is used to select a portion of said face.

Funayama teaches an image processing apparatus. Funayama further teaches further comprising a paint brush function that transfers all pixels associated with a face from said source image to said composite image when said paint brush function is used to select a portion of said face (Figure 4). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Beeman and Hsu to include transferring all pixels

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associated with a face from said source image to said composite image when said paint brush function is used to select a portion of said face in order to select a portion of the face. One would have been motivated to make such a combination in order to better format the image.

***Response to Arguments***

Applicant's arguments with respect to claims 1-38 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shashi K. Becker whose telephone number is 571-272-8919. The examiner can normally be reached on Mon-Fri 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SKB



**WEILUN LO  
SUPERVISORY PATENT EXAMINER**